

## Model V20D2 / Model V20D2S (with electric starter)

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Engine	198cc Tohatsu 2 strokes, air-cooled gasoline engine
Authorized output	11.7PS (8.6kW)
Pump performance	650 liter (172 US gals.)/min. at 0.5MPa 400 liter (106 US gals.)/min. at 0.7MPa
Priming	Rotary vane vacuum pump
Dry Weight	36kg (V20D2), 42kg (V20D2S)

## Features of V20D2/V20D2S

### 1. Light weight and compact

Engine and pump castings are made of anti-corrosive aluminum-alloy to reduce weight and prolong working life. The pump can be carried on a fireman's back for limited distances when properly mounted on a backpack. When mounted on a truck, the compact design allows for more locker space for other fire equipments. It is suitable for forest fire fighting.

### 2. High pump performance

Both engine and pump are designed exclusively for fire pumps by TOHATSU ensuring high pump performance for its class.

### 3. Unique auto choke carburetor

Equipped with TOHATSU's unique auto choke carburetor on this model, the engine can start easier in all seasonal temperature conditions. A valve type one touch-draining device is equipped for quick drainage of fuel in carburetor.

#### **4. Oilless type vacuum pump**

Tohatsu's rotary vane vacuum pump can assure you quick priming of water in case of emergency.

- 5.0 sec. at suction height 1m
- 6.0 sec. at suction height 3m
- 10.0 sec. at suction height 6m

#### **5. Centralized control**

Pressure and vacuum gauges, throttle dial and switches are grouped on the control panel.

#### **6. Stainless steel fuel tank**

Stainless steel fuel tank can keep fuel prevent contamination from corrosion.

#### **7. 90 degree rotating discharging port**

The discharge port can be rotated freely through 90degree allowing the direction of the delivery hose to be easily changed without moving the pump unit.

#### **8. Starting system**

In addition to the electric starter, a recoil starter is installed to guarantee starting under any condition (V20D2S). The pulling load of the recoil starter is reduced by engine exhaust by pass.

Accessories

1. Battery Charger (V20D2S)
2. Floodlight projector
3. Plastic toolbox

Adapters

Some different types of adapters for suction and discharge ports are available

Specifications		
<b>Engine</b>	Type	2-stroke, single vertical cylinder, air cooled gasoline engine
	Bore & Stroke	66mm x 58mm (2.60in. X 2.28in.)
	Piston displacement	198cc ( 12.08 cu.in.)
	Authorized output	11.7PS/ 8.6 kW
	Fuel tank	3.5 liters (0.92 US gals)
	Fuel consumption	4.9 liters/h. (1.29 US gals/h.)
	<b>Engine</b>	Ignition
Starting system		Starter motor (V20D2S) and automatic recoil system
Lubrication		Fuel mixture (Gasoline 30 : Engine oil 1)
Choke system		Auto choke
Spark plug		NGK B7HS
Light bulb		12V-35W
Battery		12V-14Ah
<b>Pump</b>	Type	Single suction, single stage, high pressure turbine pump
	Discharge port coupling	JIS fire thread (B-9912), 2-1/2" male
	Suction port coupling	JIS fire thread (B-9912), 2-1/2" male
	Priming	Rotary-vane vacuum pump (Oilless type)
<b>Pump performance (Suction height: 3m)</b>		Over 650 liters (Over 172 US gals)/min. at 0.5 MPa
		Over 400 liters (Over 106 US gals)/min. at 0.7 MPa
<b>Dimensions</b>	Overall length	Approx. 555mm (21.85 inch)
	Overall width	Approx. 470mm (18.50 inch)
	Overall height	Approx. 532mm (20.94 inch)
<b>Mass</b>	V20D2S: 42kg (92.59 lbs), V20D2: 36kg (79.37 lbs)	
<b>Max. suction height</b>	Approx. 9m (29.5 feet)	